Leica Geosystems Catalogue 2006/2007

The right tool for every construction site

- when it has to be right

Leica Geosystems

Improve your Performance with...

Leica GPS900
Big ambitions on a budget

The Leica GPS900 uses Leica Geosystems' proven GPS technology. Consisting of a Leica RX900 Controller and a Leica ATX900 GPS Antenna - the all-on-the-pole GPS900 RTK rover is ideal for one-person stakeout and topographic tasks.

With its flexible, easy-to-use onboard software, Leica GPS900 is the ideal solution for a wide range of jobs including foundation and drainage work, alignment stakeout, topographic and as-built surveys. The GPS900 rover is lightweight and optimised to reduce operator fatigue. Import and export functionality allows the instrument to be compatible with Leica TPS400 and Leica TPS800.

Increase your productivity with the new Economic One-Man RTK GPS System!

Find more information on page 37!

Leica Sprinter Series
Push the button and it works

Measurements have never been so easy to perform as with the Leica Sprinter Electronic Level. The Leica Sprinter allows users to perform their job quickly and efficiently.

You aim and focus, measure with one key press and the data is displayed almost instantly. There will be no more misreading and interpretation errors in reading the staff.

It is also possible to use it as an optical level. But compared to a conventional level, the digital levels' effortless, fast measurements could save your valuable time and reduce errors.
No more wasting of time and materials for you and your crew. And all this for an incredible price.

Read more on page 12!

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Leica Geosystems Levels

Extreme robustness, high measurement precision and an extremely competitive price. All this is making the difference! And more, Leica Geosystems levels are so easy to use. No need to spend time in training.

Our ergonomic optics are probably the finest optics in the world. Banish tired eyes forever and ensure you're really aiming accurately at the target, even in extreme light conditions.
Leica Geosystems levels can be configured to suit your work and preferences. Some levels can be read in either degrees or gons.

Just in case – some of our Leica Geosystems levels are shock resistant. So the systems can be used again straight away, even after a fall. According to ISO9022-33-05 standard. Being approved up to IP57 (total immersion) of the IEC 60529 standard, water, dust and dirt have no effect on Leica NA700 levels.

APPLICATIONS	Runner 20	Runner 24	NA720	NA724	NA728	NA730	NA2/NAK2
Daily levelling tasks: Site foremen, carpenters, construction companies, landscaping	X	X	X	X	X	X	-
Daily levelling tasks: with high demand for product robustness e.g. for construction of roads, railways and buildings	-	-	X	X	X	X	-
High accuracy levelling : even for building or engineering surveyors	-	-	-	-	X	X	X
Precision levelling: even for settlement determinations on building, deformation measurement and monitoring bridges	-	-	-	-	-	-	X
FEATURES							
Water resistant	X	X	X	X	X	X	X
Waterproof (immersion) & dustproof	-	-	X	X	X	X	-
Shock resistant	-	-	X	X	X	X	-
Rough/fine focus	-	-	-	-	X	X	-
Parallel-Plate micrometer for precise levelling (optional)	-	-	-	-	-	-	X

Levelling can be so easy with digital levels from Leica Geosystems. Push the button and heights, height differences and distances are automatically displayed. There will be no more misreading and interpretation errors in reading the staff.

It is also possible to use it as a optical level. But compared to a conventional level, the digital levels effortless, fast measurements could save your valuable time and reduce errors. Our digital levels even include additional error reducing functions such as built-in tilt sensors, preventing the system from measuring if the user operates outside the compensator range.

For high measurement requirements Leica Geosystems provides additional digital levels like Leica DNA03/10.
For further information please visit our homepage www.leica-geosystems.com/digitallevels

APPLICATIONS	Sprinter 100	Sprinter 100M	Sprinter 200	Sprinter 200M
Error-free levelling for all construction applications, e.g. for construction off-road, railways and buildings	X	X	X	X
Error-free levelling for all construction applications with demand for data storage and transfer,e.g road & building construction	-	X	-	X
High accuracy levelling in all application areas, e.g. road & building construction, civil engineering,topography and cadastral	-	-	X	X
High accuracy levelling in all areas with demand for data storage and transfer,e.g architecture and engineers survey	-	-	-	X
FEATURES				
Optical staff reading	X	X	X	X
Automatic staff reading	X	X	X	X
Inverse staff measuring	X	X	X	X
Automatic calculation of heights & distances	X	X	X	X
Internal memory & online operations	-	X	-	X
Line Levelling application software	-	X	-	X

Leica Runner 20/24

Tough and Accurate

Runner 20/24 are two robust and value-priced, automatic builder's levels. Designed to work hard on the job site. They are quick to set up, simple to use and very reliable.
The automatic compensator and the fast optics speed up measurements on site and increase accuracy.

Runner is the ideal construction level for site foremen, engineers, architects, landscape gardeners, carpenters, construction companies and many more.

1

Runner 20, Automatic Level
With 20x magnification,
Standard deviation per km 2.5 mm
(double-run levelling)

1 **Order No: 727 585**

Runner 24, Automatic Level
With 24x magnification
Standard deviation per km 2.0 mm
(double-run levelling)

Order No: 727 586

2

CTP103, Aluminium Tripod
Medium duty aluminium tripod with carrying strap and side clamp screws

2 **Order No: 726 833**

3

CLR101, Telescopic Level Staff
4m length, 4 sections, dual face
E-graduation and mm-graduation

3 **Order No: 727 587**

FEATURES	Runner 20	Runner 24
Magnification	20x	24x
Angle Measurement	360°	360°
Standard deviation(per km double-run)	2.5 mm	2.0 mm
Dust/ Water Protection	IP55	IP55
Working Temperature	-20°C to +50°C	-20°C to +50°C
Weight	2.0 kg	2.0 kg

Leica NA700 Levels

Built for builders, engineers and surveyors levels

Nothing stops a Leica NA700 level. A short drop onto the ground, a fall into water, vibration from heavy machinery – with a Leica NA700 level you just carry on working. And, the 'best in class' optics enable you to always work as precisely as possible, even in twilight. The NA728 and NA730 have a rough/fine focus drive making your work even easier. What does this add up to? Reduced work downtime, thus translate into higher productivity, resulting in reliability and accuracy at an extremely reasonable price.

NA720, Automatic Level
20x telescopic magnification. The automatic level for all applications on the construction site

1 **Order No: 641 982**

1

NA724, Automatic Level
24x telescopic magnification for improved accuracy. Reliability and Robustness for the demanding construction user

Order No: 641 983

NA728, Automatic Level
28x telescopic magnification, precision compensator. The all-rounder. For building or engineering surveys

Order No: 641 984

2

NA730, Automatic Level
30x telescopic magnification. The most precise. Meets the highest standards in construction, engineering and topographic surveys

Order No: 641 985

BST01L, Aluminium Tripod
Light-duty aluminium tripod, with fast clamps. Extendible 178cm (5.8ft), weight 4.0kg (8.8lb)

2 **Order No: 663 095**

CLR101, Telescopic Level Staff
4m length, 4 sections, dual face
E-graduation and mm-graduation

3 **Order No: 727 587**

3

FEATURES	NA720	NA724	NA728	NA730
Magnification	20x	24x	28x	30x
Angle Measurement	360°/400gon	360°/400gon	360°/400gon	360°/400gon
Standard deviation(per km double-run)	2.5 mm	2.0 mm	1.5 mm	1.0 mm
Dust/ Water Protection	IP57	IP57	IP57	IP57
Working Temperature	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C
Weight	1.6 kg	1.6 kg	1.7 kg	1.7 kg

Leica NA2/NAK2

The classical Level from Leica Geosystems

The NA2 universal automatic level meets all requirements-regarding precision, convenience and reliability. It was designed by surveyors and development engineers with years of experience that know what a field instrument has to be able to do. The NA2 soon pays for itself, because it can be used for all types of surveying job; on building sites for routine levelling, in engineering projects, and for geodetic control at all levels of accuracy.

NA2, Universal Automatic Level
Magnification: 32x
Standard deviation per km 0.7 mm (double-run levelling, depending on staff and technique)
1 **Order No: 352 036**

1

NAK2, Universal Automatic Level (400gon)
Magnification: 32x
Standard deviation per km 0.7 mm (double-run levelling, depending on staff and technique)
Order No: 352 039

2

NAK2, Universal Automatic Level (360°)
Same as before, but horizontal circle 360°, optical scale interval 10', reading by estimation 1'
Order No: 352 038

GPM3, Parallel-Plate Micrometer
In container, measuring range 10mm
2 **Order No: 356 121**

3

GOA2, Autocollimation Eyepiece
For all instruments
3 **Order No: 199 899**

GFZ3, Diagonal Eyepiece
Allows steep sights
4 **Order No: 734 514**

4

FOK 73, 40x Eyepiece
For NA2/NAK2, exchangeable against standard eyepiece
5 **Order No: 346 475**

5

FEATURES	NA2	NAK2
Magnification	32x	standard: 32x FOK73 eyepiece (optional): 40x
Angle Measurement	-	360°/400gon
Standard deviation (per km double-run)	0.7 mm/km (0.3 mm with parallel-plate micrometer)	0.7 mm/km (0.3 mm with parallel-plate micrometer)
Dust/ Water Protection	IP53	IP53
Working Temperature	-20°C to +50°C	-20°C to +50°C
Weight	2.4 kg	2.4 kg

Leica Geosystems Accessories for Levels

GST20, Wooden Tripod
Heavy duty, with carrying strap, side clamp screws and plumb bob. Proven long-life, twist-proof and good vibration characteristics. Robust well-established tripod for general use. Suitable for levels, lasers, total stations and GPS. Extendible 180cm (5.9ft), weight 6.4kg (14.1lb)

1 **Order No: 296 632**

GST40, Wooden Tripod
With rigid legs, length 1.70 m (5.6 ft), weight 6.0 kg (13.2lb) with accessories, for precision levelling

2 **Order No: 328 422**

GST4, Tripod Star
For setting up tripods on hard and slippery surfaces

3 **Order No: 332 200**

1

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3

CLR102, Telescopic Level Staff
5m length, 4 sections, Dual face E-graduation and mm-graduation

4 **Order No: 727 588**

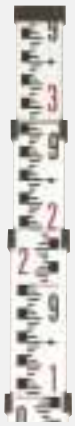
CLR103, Telescopic Level Staff
4m length, 4 sections, Dual face V-graduation and mm-graduation

5 **Order No: 731 123**

CLR104, Telescopic Level staff
5m, 5 sections

Order No: 743 420

4



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Staffs

BTL5D, Aluminium Telescopic Level Staff
Extendable to 5m, with cm-graduation on front and mm-graduation for internal dimensions on rear, with circular bubble, in transport bag

1 **Order No: 663 131**

BTL4D, Aluminium Telescopic Level Staff
Extendable to 4m, with cm-graduation on front and mm-graduation for internal dimensions on rear, with circular bubble, in transport bag

2 **Order No: 663 130**

1

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GPLE2N, Nedo invar levelling staff
2m, with circular bubble

3 **Order No: 555 636**

GPLE3N, Nedo invar levelling staff
3m, with circular bubble

Order No: 555 637

GPLE3N, Nedo invar levelling staff
3m with circular bubble, with expansion coefficient certificate and lengh calibration certificate

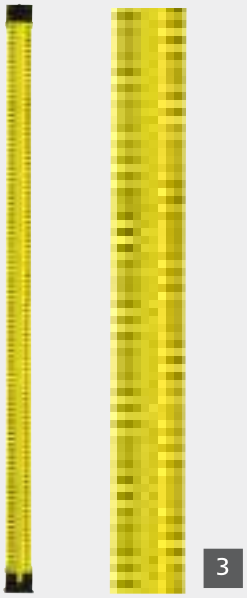
Order No: 560 172

GWL92N, Industrial levelling staff
Cm- graduation, 92 cm, invar staff with circular bubble and 2 interchangeable bases

4 **Order No: 559 615**

GWL182N, Industrial levelling staff
Cm- graduation, 182 cm, invar staff with circular bubble and 2 interchangeable bases

Order No: 559 616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Staff Accessories

GLUS1, Ground plate
For level staffs

1 **Order No: 197 000**

GSL3, Pair of struts
For GPLE3N staff

2 **Order No: 555 638**

GLI20N, Nedo staff level
For BTL4/BTL5 levelling staff

3 **Order No: 555 639**

GVP469, Transport Case
For 2 GPLE2N staffs

4 **Order No: 555 641**

GVP470, Transport Case
For 2 GPLE3N staffs

5 **Order No: 555 642**

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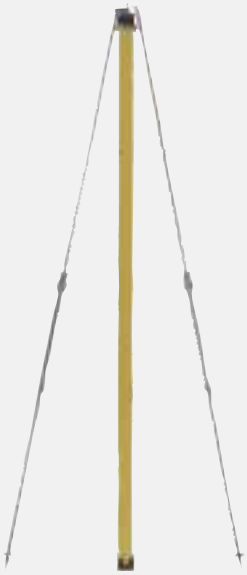

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Leica Sprinter

Error-free, Easy, Fast
The New Standard for levelling at a breakthrough price

Measurements have never been so easy to perform as with the new Leica Sprinter Electronic Level. The Leica Sprinter allows users to perform their job quickly and efficiently.

Leica Sprinter is a reliable and accurate electronic level that provides error-free measurements. Optical reading is no longer needed but also possible. Press the red key and just let the electronic eye do it! The Leica Sprinter bar code automatically determines height and distance.

The Sprinter 100M/200M are provided with Line Levelling Application option to increase field efficiency, prompting and guiding users to execute observations sequentially. This option offers field procedures (including Intermediate sight & Foresight) practiced by many engineers and surveyors.

Use the Leica Sprinter to accelerate your levelling productivity in:

- Building Construction
- Road Construction
- Civil Engineering
- Topography and Cadastral Applications
- Agriculture
- Architecture
- Landscaping
- Dimensional Control
- Mining and Quarrying
- Tunnelling
- Wherever you need to level error-free and fast

Sprinter 100
Standard deviation 2.0mm, electronic level, with user manual, 4 pcs AA dry cells and container

1 **Order No: 738 932**

Sprinter 100M
Standard deviation 2.0mm, electronic level, with user manual, 4 pcs AA dry cells and container, incl. RS232 interface & internal memory

Order No: 738 933

Sprinter 200
Standard deviation 1.5mm, electronic level, with user manual, 4 pcs AA dry cells and container

Order No: 741 867

Sprinter 200M
Standard deviation 1.5mm, electronic level, with user manual, 4 pcs AA dry cells and container, incl. RS232 interface & internal memory

Order No: 741 868

1

GKL 25 Charger
For 4xAA(R6) rechargeable batteries, European version. + 4 AA(R6) SANYO 1.2V/2300mAh NiMH rechargeable batteries

2 **Order No: 741 905**

2

GSS 111 Dual face telescopic levelling staff
5m, 4 sections, Sprinter bar code/E-Scale cm-graduation, with circular bubble, in transport bag (Std. version)

3 **Order No: 741 882**

GSS 111-1, barcode / ft-graduation (Imperial version)

Order No: 741 883

GSS 111-2, barcode / 5mm-graduation (Japan version)

Order No: 741 885

GSS 112-3, barcode / E-Scale cm-graduation (UK version)
4 m, 4 section staff

Order No: 741 884

3

GSS 112-5, barcode / 2mm-graduation (Spain version)

Order No: 741 886

CTP103, Aluminium Tripod
Medium duty aluminium tripod with carrying strap and side clamp screws

4 **Order No: 726 833**

4

Upgrade Options for Sprinter 100M/200M
Line Levelling application program for Sprinter 100M/200M

Order No: 751 747

FEATURES	Sprinter 100	Sprinter 100M	Sprinter 200	Sprinter 200M
Magnification	24 x	24 x	24 x	24 x
Angle Measurement	360°	360°	360°	360°
Time for single Measurement	<3 sec *			
Standard deviation (per km double-run)	2.0 mm(with Leica Sprinter aluminium staff)	2.0 mm(with Leica Sprinter aluminium staff)	1.5 mm(with Leica Sprinter aluminium staff)	1.5 mm(with Leica Sprinter aluminium staff)
Range	2 m - 80 m (from 0.5 m -optical)			
Dust/ Water Protection	IP55	IP55	IP55	IP55
Working Temperature	-10°C to +50°C	-10°C to +50°C	-10°C to +50°C	-10°C to +50°C
Weight	<2.5 kg	<2.5 kg	<2.5 kg	<2.5 kg

* for range up to 80m performed under normal light conditions

Leica Geosystems Construction Laser

Whether it's general construction, pipe laying, machine control, or interior walls and ceilings, our lasers are built to handle any environment.

All construction lasers are high technology and high precision tools. Compare these features and you'll see why our Construction lasers set the standard for durability and value.
Leica Geosystems lasers are water resistant that means all critical components are completely protected from all wet weather conditions. The aluminum base withstands rough handling and is highly resistant to abrasion and fracture.

Construction-tough components have all undergone rigorous testing to assure long life under harsh conditions.

What is the difference:

APPLICATIONS	Rugby 100	Rugby 100LR	Rugby 200
General construction: excavation, footing, concrete forming	X	X	X
Civil engineering: parking lots, runways, sports field	-	X	-
Interior construction	-	-	X
Installing ceiling grids	-	-	X
Transferring points from floor to ceiling	-	-	X
Installing septic and gravity flow pipe for drainage	-	-	-
Machine control of excavators, graders, dozers and similar equipment	-	X	-
Agricultural applications such as land levelling or tiling	-	X	-
FEATURES			
Waterproof and dustproof	IPX-6	IPX-6	IPX-6
High impact composite housing	X	X	X
Elevation alert	X	X	X
Working Range up to 750 m diameter	-	X	-
Scan Modes	-	-	X
Remote Control	-	-	X
Grade entry with display	-	-	-
Dual Grade	-	-	-

Leica Geosystems' Grade Lasers are the most accurate and reliable lasers for machine control applications that require precise grade. They can be used wherever level, single or dual grades are required, and are compatible with Leica Geosystems' 2D and 3D Machine Control Systems for ultimate grade control.

Leica Geosystems' pipe lasers are built with a rugged aluminum housing and perform powerfully even in tough jobsite conditions. It easily sets up in smallest inverts. They are perfect for storm and sanitary sewer construction, gravity flow pipe lines and wherever line and grade is required.

Work with confidence with the Construction lasers from Leica Geosystems.

APPLICATIONS	Rugby 300 SG	Rugby 400 DG
General construction: excavation, footing, concrete forming	X	X
Civil engineering: parking lots, runways, sports field	X	X
Interior construction	-	-
Installing ceiling grids	-	-
Transferring points from floor to ceiling	-	-
Installing septic and gravity flow pipe for drainage	X	X
Machine control of excavators, graders, dozers and similar equipment	X	X
Agricultural applications such as land levelling or tiling	X	X
FEATURES		
Waterproof and dustproof	IPX-7	IPX-7
High impact composite housing	X	X
Elevation alert	X	X
Working Range up to 750 m diameter	X	X
Scan Modes	-	-
Remote Control	-	X
Grade entry with display	X	X
Dual Grade	-	X

Leica Rugby 100/100LR/200

The rugged Family of Construction Lasers

You already know the value of lasers on the job site. They make faster work of any layout job while eliminating costly errors and downtime. Once they were a "nice to have", now they are a competitive "must have" to get the job done right and get off the site as fast as possible. One look at these automatic, self-levelling, horizontal and vertical levelling tools and you know it's a different breed.

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2

Leica Rugby 100*
Automatic self-levelling Laser for General Construction

Including: Rugby 100 Horizontal Laser, Alkaline Battery Set, Rod-Eye Pro Laser Sensor with Clamp and Carrying Case

1 **Order No: 731 558**

Leica Rugby 100 LR*
Automatic self-levelling Laser for General Construction & Machine Automation

Including: Rugby 100 Long Range Horizontal Laser, Alkaline Battery Set, Rod-Eye Pro Laser Sensor with Clamp and Carrying Case

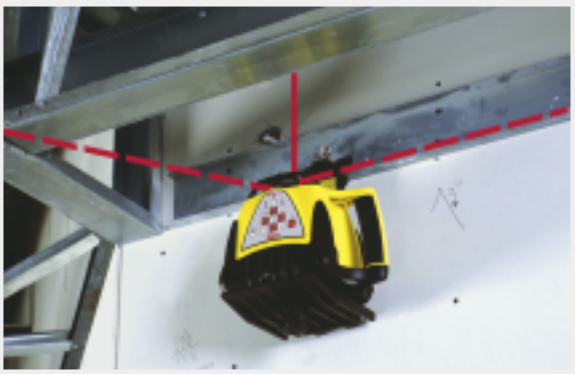
Order No: 733 621

Leica Rugby 200*
Automatic self-levelling Laser for General and Interior Construction

Including: Rugby 200 Horizontal and Vertical Laser (visible beam), Laydown Foot Attachment, Alkaline Battery Set with Holder and Standard Carrying Case

2 **Order No: 734 159**

*Leica Geosystems's warranty offers complete coverage of the internal self-levelling system no matter what. Should any accident or knockdown occur, all repairs to the internal assembly will be done at no charge.



Why Rugby is the toughest Player on the Field

- Water resistant: all critical components completely protected from wet all weather conditions
- Housing made from co-molded rubber and high impact plastic
- Aluminum base withstands rough handling and is highly resistant to abrasion and fracture
- Construction-tough components have all undergone rigorous testing to assure long life under harsh conditions
- Enclosed head means no worries about contamination of critical interior parts
- Rugged, high-impact strength polymer carrying case
- 24 month warranty

NiMH Battery Pack for Rugby 100/200 Series

1 **Order No: 726 746**

NiMH-Charger for Rugby 100/200 Series

Appropiate power cable is included

2 **Order No: 727 165**

Wallmount/Laydown Bracket Rugby 200

3 **Order No: 733 077**

Magnetic Ceiling Grid Target Rugby 200

4 **Order No: 732 791**

Infrared Remote Control Rugby 200

5 **Order No: 731 645**

FEATURES	Rugby 100	Rugby 100LR	Rugby 200
Working Range	300 m	750 m	300 m
Accuracy	± 2.6 mm @ 30 m	± 1.5 mm @ 30 m	± 1.5 mm @ 30 m
Self-levelling	H	H	H+V
Align Beam	No	No	Yes
Scan function	No	No	Yes
Waterproof	IPX-6	IPX-6	IPX-6
Working Temperature	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C
Weight	2.5 kg	2.5 kg	2.5 kg

Leica Rugby 300SG / 400DG

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When accuracy is the goal, Rugby makes the grade

Rugged and accurate, the Rugby 300 SG (Single Grade) and the Rugby 400 DG (Dual Grade) lasers are the optimal solution for precise grade control. They can be used wherever level, single or dual grades are required, and are compatible with Leica Geosystems' 2D and 3D Machine Control Systems for ultimate grade control.*
Their extensive features will ensure both material and labor savings, increasing your bottom line. Leica Geosystems' Grade Lasers are the most accurate and reliable lasers for machine control applications that require precise grade.

*The Rugby's are compatible with Leica GradeSmart, Leica 360° Cab Sensor and Leica MC200 Depthmaster. For more information please vistit our homepage www.leica-geosystems.com.

Rugby 300SG Package with Rod-Eye Sensor
With Carrying Case, NiMH Battery Pack, Charger and Rod-Eye Classic with Clamp

1 **Order No: 741 751**

Rugby 400DG Package with Rod-Eye Sensor
With Carrying Case, NiMH Battery Pack, Charger and Rod-Eye Classic with Clamp

2 **Order No: 741 752**

3

RF Remote Control for Rugby 400DG

3 **Order No: 739 854**

4

Scope and Mount Assembly
For Rugby 300SG/400DG

4 **Order No: 739 870**

Leica 360° CAB Sensor
5 Light Sensor with Carry Case, 8mm

5 **Order No: 727 542**

5

FEATURES	Rugby 300SG	Rugby 400DG
Working Range	750 m	750 m
Accuracy	± 1.6 mm @ 30 m	± 1.6 mm @ 30 m
Self-levelling	H+Grade	H+Grade
Grade Capability	-5 to +25% in one axis	-5 to + 25% in either axis -5 to +15% in both axis
Waterproof	IPX-7	IPX-7
Operating Temperature	-20° C to +50° C	-20° C to +50° C
Weight	5 kg	5 kg

Leica Piper 100/200

Rock solid construction, outstanding performance in a compact package

Built with a rugged aluminum housing, these pipe lasers perform powerfully even in tough jobsite conditions. Powerful and compact, the Leica Piper is the only pipe laser that fits inside a 100 mm (four inch) pipe.

- Automatic grade compensation
- Long battery life
- Bright, powerful beam
- Large, easy to read display
- Alignmaster™ - Automatic target recognition (Piper 200)

... in the manhole

... in the pipe

Piper 100 with Remote, Target, and Li-Ion Battery
Consisting of: Piper 100, Laser with Carrying Case, IR Remote Control, Target Assy with small or large red insert, Lithium-Ion Battery (GEB221), 4Ah, Charger Li-Ion (GKL211),incl. AC adapter, car adapter and User manual

1 **Order No: 748 704**

1

Piper 200 with Alignmaster™, Remote, Target, and Li-Ion Battery
Consisting of: Piper 200, Laser with Carrying Case, IR Remote Control, Target Assy with small or large red insert, Lithium-Ion Battery (GEB221), Charger Li -Ion (GKL211) (incl. AC adapter and car adapter), User manual

Order No: 748 710

Target Insert, small
Target insert 150-300mm, red

2 **Order No: 725 920**

2

Target Insert, large
Target Insert 400-550mm, red

Order No: 725 876

IR Remote Control

3 **Order No: 746 157**

3

Leica Geosystems Accessories for Lasers

Rod-Eye Pro Sensor with Bracket
Construction-tough, reliable and accurate Laser Sensor and universal Clamp with a reversible jaw for oval rods

1 **Order No: 727 163**

Rod-Eye Mini Sensor with Bracket
Construction-tough and reliable Laser Sensor with Rod Clamp

2 **Order No: 730 463**

Rod-Eye Classic Sensor with Bracket
Construction-tough, reliable and accurate Laser Sensor

3 **Order No: 739 575**

AC power cable 2-pole EU, to charger

Order No: 731 439

AC power cable 2-pole US, to charger

Order No: 731 440

AC power cable 2-pole UK, to charger

Order No: 731 441

AC power cable 2-pole AUS, to charger

Order No: 731 442

GLB10, Laser Glasses
Red lens glasses for improved visibility of the laser dot in bright rooms and outdoors up to 10-15m

4 **Order No: 723 777**

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Carrying Case for Rugby 100

Order No: 726 766

Carrying Case for Rugby 100LR

Order No: 731 831

Interior Carrying Case for Rugby 200

Order No: 743 014

Standard Carrying Case for Rugby 200

Order No: 731 832

Laydown foot attachment for Rugby 200

Order No: 732 335

Carrying Case for Rugby 300SG

Order No: 744 365

Carrying Case for Rugby 400DG

Order No: 744 366

Battery NiMH Pack for Rugby 300SG/400DG.

Order No: 739 855

Charger NiMH for Rugby 300SG/400DG
(including separate power cable)

Order No: 741 349

GLS11, Professional Series Telescopic Reflector Pole 2.15m
With circular bubble, cm- and ft-graduation, extends to 2,15m

Order No: 385 500

GPR112, Basic series circular prism

Order No: 753 492

LAT 195, Crankable Laser Tripod, 195cm

Order No: 663 099

Carrying Case for Piper 100

Order No: 746 155

Carrying Case for Piper 200

Order No: 746 156

Trivet Assembly with Mounting Bracket

Order No: 746 158

Mounting Bracket

Order No: 746 159

Foot, 6" / 150 mm Piper

Order No: 746 161

Foot, 8" / 200 mm Piper

Order No: 746 162

Foot, 9" / 225 mm Piper

Order No: 746 163

Foot, 10" / 250 mm Piper

Order No: 746 164

Foot, 12" / 300 mm Piper

Order No: 746 165

Leica Digisystem

Safe and fast location of underground services

Every year, site workers are injured due to inadvertently striking buried electricity cables or gas pipelines. With the Digisystem operators can locate, trace and mark underground services precisely and reliably prior to excavation.
The Digisystem increases your onsite safety and saves effort and money. Several vital safety features built into the Digicat™ 100 and 200 models are rarely found in similarly priced units from other manufacturers.

- Digital signal processing – robust and error free location in the construction environment
- Easy to use – requires only minimal training
- Robust, lightweight and waterproof – designed for tough working conditions
- Always starts in power mode at maximum sensitivity – ensures safest operating conditions
- 8 and 33 kHz tracing modes, depth estimation to 3m, accuracy typically better than ±10% (Digicat™ 200) – maximum flexibility
- Highly visible digital LED display – swift service location

The Digisystem offers 3 selectable operating modes

Power mode: locates power signals radiated by energised cables.

Radio mode: traces signals originating from distant radio transmitters. These radio signals penetrate the ground and are re-radiated by buried metallic cables and pipes.

Generator mode (8 and 33 kHz): locates a distinctive signal applied by the DIGITEX 8/33 dual frequency signal generator to a metallic underground conductor.

Leica Digicat™ 100
Can be used to find live (energised) power cables, trace buried metal services which reradiate signals

1 **Order No: 731 047**

Leica Digicat™ 200
In addition to the Dicicat™ 100, the Digicat™ 200 offers a non-stop depth estimation. In co-operation with the DIGITEX 8/33(operating in the 33kHz mode) the real depth and location of all services can be found

2 **Order No: 731 048**

DIGITEX 8/33 Signal Generator
The Digicat™ with the DIGITEX 8/33 signal generator give highly accurate results via specific tracing frequencies (incl.batteries,connection cable set,earth spike & user manual)

3 **Order No: 731 049**

DIGITRACE 30 Service Tracer
The DIGITRACE service tracer allows tracing of plastic ducts, clay drains and other non-metallic conduits

4 **Order No: 731 050**

Medium Signal Clamp
Provides a connection from the DIGITEX 8/33 to metallic pipes, cables, etc. (max 100mm outside diameter)

5 **Order No: 731 056**

DIGIMOUSE 40mm dia. (sonde)
DIGIMOUSE - specific point radiator of generated signal

6 **Order No: 731 053**

Property Connection Cable Set EU
Cable Set to connect signal from DIGITEX 8/33 into the property power cables, European-Version

7 **Order No: 731 666**

Digisystem Carry Bag
Carries the two main instruments of the System (Digicat™ 100 and DIGITEX 8/33) plus many small accessories

8 **Order No: 740 307**

1

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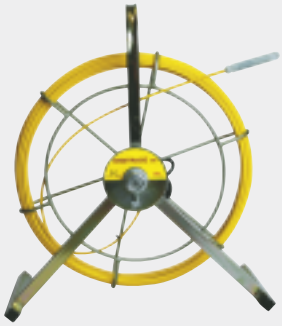
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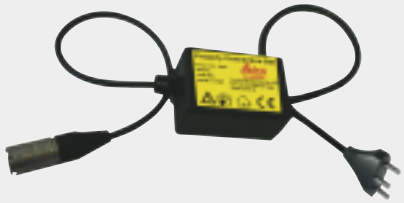
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8

Leica Disto™ Family

Leica Disto™ A3
Robustness and easy handling are the defining characteristics of this instrument. In addition to the well-known shortcut keys, are the minimum and maximum measurement functions, which enable horizontal and diagonal measurements e.g. in corners. The built in Power Range Technology™ permits making measurements of up to 80 m without target plates. This makes the robust one outdoor capable. To keep you from forgetting your measured values, there is also a memory function.

1 **Order No: 740 687**

1

2

Leica Disto™ A5
The Leica Disto™ A5 model stands out thanks, both to its ergonomic design and the soft rubber grip that allows it to sit well in the hand. With the unique end piece, wide range of additional functions and integrated viewfinder, you are fully equipped to tackle any measuring task. The most common calculating functions are quickly and easily accessed via the corresponding shortcut keys.

2 **Order No: 740 689**

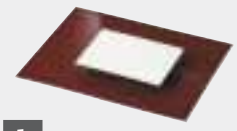
Leica Disto™ A6
With the Leica Disto™ A6 you are equipped to meet the demands of any situation. Measuring does not end with displaying the measured values on the Leica Disto™ A6, the data can be electronically transferred to a Pocket PC or Laptop for immediate processing.
Included in the scope of delivery is the software Disto™ transfer. It transfers your measured data to Excel®, Word®, AutoCAD® orto other programs. Find out more about software providers with customised programs at: www.disto.com.

3 **Order No: 751 961**

3

GZM26, Target Plate , large
Size: 210 x 297 mm (A4)
White side for short and brown side for long distance measurements

1 **Order No: 723 385**



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GZM27, Stick-On Target Plate
Target plate held in place with kneading adhesive.
Size: 73 x 98 mm / 147 x 98 mm

2 **Order No: 723 774**

2

GLB10, Laser Glasses
Red lens glasses for improved visibility of the laser dot in bright rooms and outdoors up to 10-15m

3 **Order No: 723 777**

3

Softbag
Large carrying case for secure storage and transportation of Leica Disto™s handlasermeter and accessories. The case is supplied without content

4 **Order No: 667 169**

4

Arm Holder Pocket PC
For comfortable and long wear of a Pocket PC designed universal arm-holster

5 **Order No: 739 200**

5

Technical Data	Disto A3	Disto A5	Disto A6
Typical measuring accuracy	± 1.5 mm	± 2.0 mm	± 1.5 mm
Range	0.05 m to 100	0.05 m to 200	0.05 m to 200
Power Range Technology®	•	•	•
Measuring units	0.000 m, 0.00 m, 0.00 ft, 0.00 1/16 ft in, 0'00'' 1/16, 0.0 in, 0 1/16 in	0.000 m, 0.00 m, 0 mm, 0.00 ft, 0.00 1/32 ft in, 0'00'' 1/32, 0.0 in, 0 1/32 in	0.000 m, 0.00 m, 0 mm, 0.00 ft, 0.00 1/32 ft in, 0'00'' 1/32, 0.0 in, 0 1/32 in
Distance in m Laser dot diameter in mm		10, 50, 100 m 6, 30, 60 mm	
Area, volume measurement	•	•	•
Room calculation		•	•
Indirect distance measurements		•	•
Addition / subtraction	•	•	•
Store constant values		1	1
Interface			Bluetooth® Wireless Technology
Multifunctional end piece		•	•
Built in telescopic view-finder		•	•
Measurements perset of batteries	Up to 5000	Up to 10000	Up to 10000 (reduced in Bluetooth® operating mode)
Spray proof / dust protected IP54	•	•	•
Weight with batteries	145 g	241 g	270 g

Machine Automation Solutions

Whether you need simple laser height detection for excavators or need to control a concrete slipform paver to millimetres, Leica Geosystems can help you optimise site productivity with a complete range of machine automation solutions. Designed for construction applications such as bulk earthworks, excavation, fine-grading and paving. All our 1D/2D systems can be upgraded to full 3D control.

2D Machine Automation Solutions

Leica MC200 Depthmaster

MC200 Depthmaster is a machine control receiver with patented plumb indicator. The receiver receives the laser beam and shows the deviation signal on the display or/and send it to the Panel. It can be used for house building, with farm drainage machines, back-hoe excavators, milling machines and plows.

Leica MC200 Digger

MC200 Digger is a guidance solution for excavators and provides real-time dig depth and reach information on an easy-to-read graphical display mounted in the cab. At the same time, the system is weighing and logging material moved automatically without user interaction. It can be used e.g. for jobs as footers, trenching, layering, creating embankments, working on blind cuts or underwater.

Leica GradeSmart

Leica GradeSmart is an universal machine control system for all grading machines. With interchangeability between different machine types, GradeSmart will dramatically increase your machine fleet efficiency. Easy hardware and software set-ups, advanced pilot valve control, an integrated hydraulic tuning system and automated troubleshooting support you in all grading tasks.

Fast, Smart, Integrated

Whether you are grading, digging or paving, you need a flexible and integrated approach to completing a job on time and to budget.
Leica Geosystems Machine Automation includes guidance and automatic solutions you know and trust to have you working fast and smart.

So when you talk about increasing productivity, remember Leica Geosystems Machine Automation has a complete solution:

Visit our website at www.leica-geosystems.com or call your local Leica Geosystems dealer.

Leica GradeSmart 3D
a special solution for dozing and grading applications

Leica DigSmart 3D
a smart machine guidance solution for excavators used in the construction business

Leica PaveSmart 3D
a Curb & Gutter control system offering a total jobsite flexibility and mobility

Leica MNS1200 GNSS Solution
a machine navigation solution optimising working around trees, in canyons, mines and sites with overhead obstructions

- when it has to be right

Leica Geosystems

Leica MC200 Depthmaster

Low cost depth indication system

Together with a rotating laser the excavator sensor MC200 Depthmaster provides accurate elevation control and a unique, patented, built-in vertical plumb indicator for consistent accuracy. Constant Accuracy Band (C.A.B.) technology used in the MC200 Depthmaster receives the laser signal and electronically maintains consistent accuracy over distance.

MC200 Depthmaster Excavator Sensor with Clamp-on Brackets
Package includes MC200 Depthmaster with Carrying Case, Battery Pack Ni-Cad for Depthmaster, Clamp-on Bracket for DM200 (2x), Charger 220V and User Manual

1 **Order No: 742 438**

MC200 Depthmaster Excavator Sensor with Magnetic Bracket
Package includes MC200 Depthmaster with Carrying Case, Battery Pack Ni-Cad for Depthmaster, Magnetic Bracket for DM200, Charger 220V and User Manual

2 **Order No: 742 440**

1

2

Main Features at a Glance

- CONSTANT ACCURACY BAND (CAB) - Maintains 'on-grade'accuracy regardless of operating distances spot size, or rotating laser type, either ±1/6" (4 mm) or ±1/2" (12 mm) depending on jobsite requirements.
- MIRROR IMAGE MOUNTING - Front or rear display panel of the MC200 Depthmaster are the same for mounting on either side of the machine.
- MEMORY - When the MC200 Depthmaster is out of the range of the lasers a LED will blink indicating which way to move the sensor to reacquire the laser.
- SHAKE TO WAKE - The unique 'SHAKE TO WAKE' system turns off non-essential electronics after 5 minutes of non-use. It automatically turns back on when your machine begins to move again.
- POLE MOUNT - When used with the optional clamp-on assemblies, the MC200 Depthmaster can be mounted on any machine.
- MAGNETIC MOUNT - The MC200 Depthmaster is extremely convenient with its powerful magnetic mount. It takes seconds to attach to the machine. No drilling or welding is required.

Leica MC200 Digger

The excavatior guidance solution with Dual Slope option

MC200 Digger provides excavator operators with real-time depth, slope and reach information, in relation to any reference, on an easy-to-read graphical display MC200 control panel mounted in the cab.
At the same time, the system is weighing and logging material moved automatically without user interaction.

As your business grows so too can MC200 Digger:

Features
- Graphical MC200 Operator Control Panel
- CANbus sensors
- Metric or US units
- Height/depth alarms
- Dual axis tilt bucket (IP67)

Optional
- Underwater dual axis tilt bucket sensor (IP68)
- Laser catcher
- 3rd boom sensor
- Dual slope
- Weighing
- Upgrade to DigSmart 3D
- Light bar

MC200 Digger Lite Package
Complete Digger Package includes Operator Display for MC200, 6.4", Boom 1 angle sensor ID64, Boom 2 angle sensor ID65, Bucket sensor XY-connector IP67, Junctionbox MC200 (Weighing/Rotation), 2 Straight Cables for angle sensor, Cable last angle sensor-Junctionbox, Cable for Power Supply, 2 Brackets for angle sensor / Laser Catcher, Bracket for Bucket sensor, Protection cab for Bucket sensor and cable tie, long

Order No: 749 697

MC200 Digger Pro Package
This Digger Package includes the same as the "Lite" Package and additionally 1 Machine Chassis sensor XY, 1 Straight Cable for angle sensor, 1 Bracket for angle sensor / Laser Catcher

Order No: 749 698

MC200 Digger Dual Slope Package
This Digger Package includes the same as the "Lite" Package and additionally 1 Machine Chassis sensor XY, 1 Straight Cable for angle sensor, 1 Bracket for angle sensor / Laser Catcher, Rotation sensor, Cable for Rotation sensor, MMM200, 1m rigid mast, aluminium, incl. mounting bracket, Bracket for Rotation sensor

Order No: 749 699

Leica Geosystems Total Stations

Easily affordable, tough total stations, built specially for site work. Use them even without experience, for fast, reliable angle & distance measurements, stake out and simple routines for standard building and construction tasks.

The era of purely mechanical or optical instruments is over. This is the digital era where digital instruments are needed to remain competitive.

Whether you have to precisely layout a construction site, perform control measurement or collect height and angle data - Leica Geosystems offers the right total station for your construction application.

APPLICATIONS & FEATURES	Builder T100	Builder T200	Builder R100	Builder R200	Builder R100M	Builder R200M
Alignment	X	X	X	X	X	X
Defining Angles	X	X	X	X	X	X
Plumbing	X	X	X	X	X	X
Measure or define slopes	X	X	X	X	X	X
Distance Measurement	-	-	X	X	X	X
Layout	-	-	X	X	X	X
Measure as-built	-	-	X	X	X	X
Measure size and perimeter of an area	-	-	X	X	X	X
Compute a block volume	-	-	X	X	X	X
Determine tie distance and height difference	-	-	X	X	X	X
Determine indirect heights	-	-	X	X	X	X
Connects to PC data logger, 3rd party software packages	-	-	-	-	X	X
Comfortably select layout data by picking points from the memory	-	-	-	-	X	X
Store data, no need for hand-writing them	-	-	-	-	X	X

All models are available in two accuracies:
Builder T/R/R100M: 9" provides 4 mm accuracy on 100 m,
Builder T/R/R200M: 6" provides 3 mm accuracy on 100 m

Measurements have never been so easy to perform as with a Leica Geosystems Total Station. The TPS Series allows beginners and professionals to do the job quickly and efficiently.

Especially the Leica TPS400/800 series are designed to meet your specific requirements. PinPoint EDM technology significantly improves productivity whilst maintaining maximum accuracy. Ease of use is guaranteed through an intuitive operation concept which allows beginners to become experts with ease.

Whether you want to survey a parcel of land or stake out on a construction site, a variety of application programs are available for quick results, whilst guaranteeing reliable measurements.

APPLICATIONS & FEATURES	TC400 models	TCR400 power models	TCR400 ultra models	TC800 models	TCR800 power models	TCR800 ultra models
	All TPS400 models are available with 3 different angle accuracies, 7", 5" and 3"			All TPS800 models are available with 3 different angle accuracies, 5", 3" and 2"		
Alphanumeric Keyboard	-	-	-	X	X	X
Reflectorless measurement	-	X	X	-	X	X
Long Range Reflectorless Measurement	-	-	X	-	-	X
Plumbing	X	X	X	X	X	X
Survey points with coding	X	X	X	X	X	X
Measure size and perimeter of an area	X	X	X	X	X	X
Compute block volume	X	X	X	X	X	X
Layout and measure as-built	X	X	X	X	X	X
Determine station positions, instruments heights, hidden points, tie distance andheight differences, indirect heights	X	X	X	X	X	X
Reference Arc measurements	-	-	-	X	X	X
Coordinates calculations	-	-	-	X (option)	X (option)	X (option)
Road measurement and Stake-outs	-	-	-	X (option)	X (option)	X (option)
Offset measurement	X	X	X	X	X	X
Connects to PC data logger, 3rd party software packages	X	X	X	X	X	X
Comfortably select layout data by picking points from the memory	X	X	X	X	X	X
Store data, no need for hand-writing them	X	X	X	X	X	X

For high measurement requirements Leica Geosystems provides additional total stations like Leica TPS700.
For further information please contact your dealer or visit our homepage www.leica-geosystems.com/totalstations .

Leica Builder

Built for Builders

With the Leica Builder, Leica Geosystems is aiming experts in the building sector who have up to now shied away from using professional measuring instruments. Its uniquely easy-to-operate control concept and the outstanding product performance accelerates common construction site jobs, e.g. layout or plumbing.

The rugged Builder stands up to the elements and takes all kinds of weather. And yet it's easily to transport in the carry case that holds most accessories in a single lightweight package.

Builder T100 SET
Theodolite with laser plummet, 1 keyboard, user manual, tribrach, battery adapter including 6 AA batteries and container

Order No: 747 827

Builder T200 SET
Theodolite with laser plummet, 1 keyboard, user manual, tribrach, battery adapter including 6 AA batteries and container

Order No: 747 828

Builder R100 SET
Theodolite with EDM, laser plummet, 1 keyboard, user manual, tribrach, battery adapter including 6 AA batteries, flat prisma, reflector pole and container

Order No: 747 829

Builder R200 SET
Theodolite with EDM, laser plummet, 1 keyboard, user manual, tribrach, battery adapter including 6 AA batteries, flat prisma, reflector pole and container

Order No: 747 830

Builder R100M SET
Theodolite with EDM, internal memory, serial RS232 interface, laser plummet, 1 keyboard, user manual, tribrach, battery adapter including 6 AA batteries, flat prisma, reflector pole, Lemo to USB transfer cable and container

Order No: 747 831

Builder R200M SET
Theodolite with EDM, internal memory, serial RS232 interface, laser plummet, 1 keyboard, user manual, tribrach, battery adapter including 6 AA batteries, flat prisma, reflector pole, Lemo to USB transfer cable and container

Order No: 747 832

Multilingual function

The Leica Builder is the only instrument of its class with multiple languages onboard. This allows the user to choose the preferred language – simply and with only one keystroke, for improved efficiency and convenience.

direct.dxf

With "Direct.dxf" functionality, data can be read directly from the instrument in dxf-format and read into AutoCAD® on a PC without any intermediate steps. Coordinates and point numbers can be stored in different layers.

GEB111, NiMH Plug-in Battery 6V/2.1Ah
Rechargeable camcorder type battery (for Builder, TPS400/700/800, RCS1100, DNA03/10)
1 **Order No: 667 318**

1

GTS, Second Keyboard
2nd keyboard, for Builder instruments, for telescope position 2, fitted
2 **Order No: 747 942**

2

GKL112, Basic Series Charger, NiMH
Budget priced charger for single GEB111/121 battery. Car adapter cable is included
3 **Order No: 734 753**

3

GFU15, Bluetooth® Kit
Including Bluetooth® module, charger, protection cover and tripod hook
4 **Order No: 821 6666**

4

Your Builder is Ready to go

No matter which Builder you choose, you'll always get a complete set you can start your job with.

FEATURES	Builder T100	Builder T200	Builder R100	Builder R200	Builder R100M	Builder R200M
Angle measurements (Hz, V)						
Standard deviation (ISO 17123-3)	9" (directional deviation 4 mm at 100 m)	6" (directional deviation 3 mm at 100 m)	9" (directional deviation 4 mm at 100 m)	6" (directional deviation 3 mm at 100 m)	9" (directional deviation 4 mm at 100 m)	6" (directional deviation 3 mm at 100 m)
Compensator	2-axis electronic Operating range +/-4'					
Telescope						
Magnification	30 x	30 x	30 x	30 x	30 x	30 x
Field of view	2.4m @ 100m	2.4m @ 100m	2.7m @ 100m (with EDM)	2.7m @ 100m (with EDM)	2.7m @ 100m (with EDM)	2.7m @ 100m (with EDM)
Distance Measurement						
Standard Deviation (ISO 17123-3)	-	-	3 mm +2 ppm	3 mm +2 ppm	3 mm + 2 ppm	3 mm + 2 ppm
Range On Kodak Grey Card On flat prism	-	-	 80m 250m	 80m 250m	 80m 250m	 80m 250m
Laser plummet (Precision)	1.5 mm @ 1.5 m	1.5 mm @ 1.5 m	1.5 mm @ 1.5 m	1.5 mm @ 1.5 m	1.5 mm @ 1.5 m	1.5 mm @ 1.5 m
Internal memory	-	-	-	-	10 000 Data blocks	10 000 Data blocks
Interface	-	-	-	-	RS232/USB up to 19'200 Baud	RS232/USB up to 19'200 Baud
Dust and Rain	IP54	IP54	IP54	IP54	IP54	IP54

Leica TPS400

Easy, quick and reliable

The Leica TPS400 Series is specifically designed for the construction site. It is very easy to use and impresses by a high level of functionality. With a laser plummet and electronic level the instrument is quickly set up and ready to measure.
The proven endless fine drive and the accurate telescope with 30-times magnification precisely targets each measuring point. The integrated electronic distance meter measures to target plates, prisms or even reflectorless to any given surface.

Now with the new TCR400ultra versions reflectorless measurements up to more than 500 m are possible.

Leica TC407
7"(2mgon) total station, 1 keyboard, user manual and container
Order No: 725 552

Leica TC405
5"(1.5mgon) total station, 1 keyboard, user manual and container
Order No: 725 553

Leica TC403
3"(1mgon) total station, 1 keyboard, user manual and container
Order No: 725 554

Leica TCR407power
7"(2mgon) total station with reflectorless EDM, 1 keyboard, user manual and container
Order No: 737 919

Leica TCR405power
5"(1.5mgon) total station with reflectorless EDM, 1 keyboard, user manual and container
Order No: 737 920

Leica TCR403power
3"(1mgon) total station with reflectorless EDM, 1 keyboard, user manual and container
Order No: 737 921

Leica TCR407ultra
7"(2mgon) totalstation with extended-range reflectorless EDM, 1 keyboard, user manual and container
Order No: 748 624

Leica TCR405ultra
5"(1.5mgon) totalstation with extended-range reflectorless EDM, 1 keyboard, user manual and container
Order No: 748 625

Leica TCR403ultra
3"(1mgon) totalstation with extended-range reflectorless EDM for measurements without reflector, 1 keyboard, user manual and container
Order No: 748 626

Leica TPS800

Powerful, efficient, reliable and intuitive

The Leica TPS800 is a true workhorse for all professionals who require an instrument that is easy to learn and optimised for field usage. The EDM provides long range measurement to all targets. All TPS800 will be delivered with more features than ever. The TPS800 is equipped with new keyboard, display and software. The display features high resolution and good readability under all light conditions.

Now even with the new TCR800ultra versions reflectorless measurements up to more than 500 m are possible.

Leica TC805
5"(1.5mgon), total station, 1 keyboard, user manual and container

Order No: 741 504

Leica TC803
3"(1mgon), total station, 1 keyboard, user manual and container

Order No: 741 503

Leica TC802
2"(0.6mgon), total station, 1 keyboard, user manual and container

Order No: 741 502

Leica TCR805power
5"(1.5mgon), total station with reflectorless EDM, 1 keyboard, user manual and container

Order No: 741 507

Leica TCR803power
3"(1mgon), total station with reflectorless EDM, 1 keyboard, user manual and container

Order No: 741 506

Leica TCR802power
2"(0.6mgon), total station with reflectorless EDM, 1 keyboard, user manual and container

Order No: 741 505

Leica TCR805ultra
5"(1.5mgon), total station with extended-range reflectorless EDM for measurements without reflector, 1 keyboard, user manual and container

Order No: 748 605

Leica TCR803ultra
3"(1mgon), total station with extended-range reflectorless EDM, 1 keyboard, user manual and container

Order No: 748 606

Leica TCR802ultra
2"(0.6mgon), total station with extended-range reflectorless EDM, 1 keyboard, user manual and container

Order No: 748 607

Features of TPS400/800

PinPoint – Reflectorless Distance measurement

The PinPoint technology enables a reflectorless distance measurement to any surface and an exceptional range of over 500 m ("ultra"-models).

Direct.dxf

With "Direct.dxf" functionality, data can be read directly from the instrument in dxf-format and read into AutoCAD® on a PC without any intermediate steps. Coordinates, codes and point numbers can be stored in different layers.

Theft-protection

The PIN-code feature prevent unauthorized persons from using the instrument. Without correct code, the equipment can't be operated, data erased and makes it unattractive to steal.

GFU15, Bluetooth® Kit
Including Bluetooth® module, charger, protection cover and tripod hook

1 **Order No: 821 6666**

1

EGL3, Electronic Guide Light
For stake-out with all TPS400/800 instruments

2 **Order No: 667 161**

2

GST19-V2, Second Keyboard
2nd keyboard for dual face measurements for all TPS400 instruments

3 **Order No: 733 370**

3

GTS21, Second Keyboard
2nd keyboard for all TPS800 instruments, for telescope position 2

4 **Order No: 741 495**

4

Basic Set of Accessories TPS400/800
Consisting of: 1 Tribrach (GDF111-1), 2 Batteries (GEB111), 1 Charger (GKL112), 1 Data transfer cable Lemo/USB (GEV189), 1 Miniprism Set (GMP111), 1 Instrument height meter (GHM007)

Order No: 730 484

FEATURES	TPS403	TPS405	TPS407	TPS802	TPS803	TPS805
Angle measurements (Hz, V)						
Standard deviation (ISO 17123-3)	3" (1mgon)	5" (1.5mgon)	7" (2mgon)	2" (0.6mgon)	3" (1mgon)	5" (1.5mgon)
Compensator	Electronic 2 axis oil compensator			Electronic 2 axis oil compensator		
Infrared Distance measurement (IR)						
Measuring range with circular prism GPR1	3'500m			3'500m		
Measuring with reflective foil (60 mm x 60mm)	250m			250m		
Standard deviation (ISO 17123-4) (fine/quick/tracking)	2mm + 2ppm/5mm + 2ppm/5mm + 2ppm			2mm + 2ppm/5mm + 2ppm/5mm + 2ppm		
Time for a measurement (fine/quick/tracking)	< 1 sec/< 0.5 sec/< 0.15 sec			< 1 sec/< 0.5 sec/< 0.15 sec		
PinPoint-Reflectorless Distance measurement (RL)						
Range PinPoint R100("power")	170 m (90% reflective)			170 m (90% reflective)		
Range PinPoint R300 ("ultra")	> 500 m (90% reflective)			> 500 m (90% reflective)		
Internal data storage	10'000 data blocks			10'000 data blocks		
Interface	RS232			RS232		
Display Graphics	160 x 280 pixels, Alphanumeric 8 lines x 31 characters			160 x 280 pixels, Alphanumeric 8 lines x 31 characters		
Temperature range	-20° C to +50° C (-4° F to +122° F)			-20° C to +50° C (-4° F to +122° F)		
Dust and splash proof (IEC 60529)	IP54			IP54		
Applications	Surveying • Reference line • Remote Height • Stake out • Free Station • Tie Distance • Hidden Point • Area (plan) • Target Offset • Volume			Surveying & Orientation • Reference line & Arc • Remote Height • Stake out • Free Station • Tie Distance • Hidden Point • Area (3D) & Volume • Construction • Target Offset • Volume COGO • Road 2D		

Leica GPS900

Big ambitions on a budget

The Leica GPS900 uses Leica Geosystems' proven GPS technology. Consisting of a Leica RX900 Controller and a Leica ATX900 GPS Antenna the all -on-the-pole GPS900 RTK rover is ideal for one-person stakeout, topographic tasks and for a wide range of jobs including foundation and drainage work and as-built surveys. Import and export functionality allows the instrument to be compatible with Leica TPS400 and Leica TPS800.

Stakeout

Stakeout points and digital terrain models (DTMs) with the stakeout program. Navigate directly using the map-view or using the large bull's-eye.

Topographic Survey

Record points with or without code and attribute information. Set criteria and measure points automatically. View the survey in the large, graphical map-view display. Use the Survey program for detail, topo, title surveys etc.

Alignment

Stakeout relative to a 3D alignment using the RoadRunner Lite option. Points can be staked out at any chainage (stationing) and offset. Work with any combination of geometric elements.

Leica GPS900

Leica RX900 Controller
WinCE GPS900 Controller with battery compartment, touch screen, alpha keyboard, stylus for touch screen, user manual. Controller for the ATX900

1 **Order No: 748 414**

Leica ATX900 GPS Antenna
L1/L2 GPS Antenna for GPS900. To be used together with the RX900 controller

2 **Order No: 748 415**

GLS30, carbon-fibre pole
GPS telescopic carbon-fibre pole with circular bubble and 5/8" screw, snap-locks at 2.00 m

3 **Order No: 752 292**

GSW596, RX900 Software Application
For Volume Calculations

Order No: 754 872

GST05L, Aluminium Tripod
Medium-duty tripod, with shoulder strap. Suitable for levels, lasers, medium weight total stations and GPS.
Extendible 176cm (5.7ft), weight 4.6kg (10.1lb)

4 **Order No: 563 630**

1

2

3

4

GPS900 Package
GPS900 is available in a variety of packages that contain the GPS900 and all necessary accessories. Please contact your dealer or Leica Geosystems representative for more information.

FEATURES

GPS technology	SmartTrack dual frequency 12 L1 + 12 L2
ATX900 GPS Antenna	Built-in groundplane with SmartCheck and Bluetooth® wireless technology
RX900 Controller	1/4 VGA Touch screen, Windows CE 5.0, 256 MB internal memory Bluetooth® wireless technology, RTK range: 2500 m
SmartCheck	Horizontal accuracy: 10 mm +1 ppm, kinematic Vertical accuracy: 20 mm +1 ppm, kinematic Position update rate: 1 Hz standard, option up to 2 Hz
Power supply	Li-Ion 1.9 Ah/7.2 V for GPS900 rover. Ni-MH 8.0 Ah/12 V for GPS900 reference setup. Power RTK rover for about 5 hours.
Temperature ISO9022, MIL-STD-810F	Operation: –30°C to +65°C Storage: –40°C to +80°C
Protection against water, dust and sand, IP67 (IEC60529), MIL-STD-810F	Waterproof to 1 m temporary submersion Dust tight
Weight	ATX900: 0.96 kg, RX900: 0.71 kg Entire GPS900 RTK rover: 3.49 kg

Leica Geosystems - Nothing is really closer

Australia
C.R. Kennedy & Company Pty.Ltd
Pyrmont
Phone: +61 2 9518-9700
Fax: +61 2 9518-9711

Austria
Rudolf & August Rost
Wien
Phone: +43 1 981 22-0
Fax: +43 1 981 22-50

Belgium
Leica Geosystems NV/SA
Diegem
Phone: +32 2 2090700
Fax: +32 2 2090701

Canada
Leica Geosystems Ltd.
Willowdale
Phone: +1 416 497 2460
Fax.: +1 416 497 8516

China P.R.
Leica Geosystems AG,
Representative Office Beijing
Phone: +86 10 8525 1838
Fax: +86 10 8525 1836

Denmark
Leica Geosystems A/S
Herlev
Phone: +45 44 54 02 02
Fax: +45 44 45 02 22

Finland
Leica Nilomark OY
Espoo
Phone: +358 9 6153 555
Fax: +358 9 5022 398

France
Leica Geosystems Sarl
Le Pecq Cedex
Phone: +33 (0)1 30 09 17 00
Fax: +33 (0)1 30 09 17 01

Germany
Leica Geosystems GmbH Vertrieb
München
Phone: + 49 (0) 89 / 1498 100
Fax: + 49 (0) 89 / 1498 10 33

Hong Kong
Leica Geosystems Ltd
Phone: +852 2564 2299
Fax: +852 2564 4199

Ireland
Survey Instrument Services Ltd
Dublin
Phone: +353 1456 8650
Fax: +353 1 456 8653

Italy
Leica Geosystems S.p.A.
Cornegliano Laudense
Phone: + 39 0371 69731
Fax: + 39 0371 697333

Japan
Leica Geosystems K.K.
Tokyo
Phone: +81 3 5940 3033
Fax: +81 3 5940 3056

Korea, (Republic of)
Leica Geosystems Korea
Seoul
Phone: +82 2 565 5251
Fax: +82 2 598 9686

Mexico
Leica Geosystems S.A. de C.V.
Mexico D.F.
Phone: +525 563 5011
Fax: +525 611 3243

Netherlands
Leica Geosystems B.V.
Rijswijk
Phone: +31 70 307 89 00
Fax: +31 70 307 89 19

Norway
Leica Geosystems AS
Oslo
Phone: +47 22 88 60 80
Fax: +47 22 88 60 81

Poland
Leica Geosystems Sp. z o.o.
Warsaw
Phone: +48 22 3381534
Fax: +48 22 338 15 22

Portugal
Leica Geosystems, Lda.,
Sao Domingos de Rana
Phone: +351 214 480 930
Fax: +351 214 480 931

Russia
Leica Geosystems OOO
Moscow
Phone: +7 95 234-5557
Fax: +7 95 234-5560

Spain
Leica Geosystems, S.L.
Barcelona
Phone: +34 934 949 440
Fax: +34 934 949 442

Sweden
Leica Geosystems AB
Sollentuna
Phone: +46 8 625 30 00
Fax: +46 8 625 3010

Switzerland
Leica Geosystems AG
Glattbrugg
Phone: +41 44 809 3311
Fax: +41 44 810 7937

United Kingdom
Leica Geosystems Ltd
Milton Keynes
Phone: +44 1908 256 500
Fax: +44 1908 246 259

USA
Leica Geosystems Inc.
Norcross
Phone: +1 770-326-9500
Fax: +1 770 447 0710

Other Countries:

Contact Headquarter
Leica Geosystems AG
Switzerland, Heerbrugg
Phone: +41 71 727 3131
Fax: +41 71 727 4674

	Builder	TPS400/800	Piper	Rugby 100	Rugby 200	Rugby 300/400	Disto A3/A5/A6
Laser class 3R in accordance with IEC 60825-1 and EN 60825-1		• Distance meter (PinPoint R100/R300)	•		•		
Laser class IIIa in accordance with FDA 21CFR CH.I § 1040			•		•		
Laser class 2 in accordance with IEC 60825-1 and EN 60825-1	• Distance meter (RL), Laser plummet	• Laser plummet		•	•		•
Laser class II in accordance with FDA 21CFR CH.I § 1040				•	•		
Laser class 1 in accordance with IEC 60825-1 resp. EN 60825-1		• Distance meter (IR)				•	
LED class 1 in accordance with IEC 60825-1 resp.EN 60825-1		• Guide light (EGL)					

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